



Water Infrastructure Workshop

Developing a long term vision for water infrastructure in the Nashua Region



July 18, 2013

Nashua Regional Planning Commission







The Basics

Linking local, regional and state planning

State
Development
Plan

RSA 9-A

Regional Planning

RSA 36:47

Local Master Plan

RSA 674:2

CHAPTERS



 Community & Economic Vitality



Transportation



Housing



Water Infrastructure



Environment



Energy Efficiency & Green Building





The Basics

Livability Principles

Housing Choices

Community & Economic Vitality

Climate Change & Energy Efficiency

Transportation Choices

Traditional Settlement Patterns

Natural Resource
Functions &
Quality





Municipal Master Plans – Common Themes

Most NRPC communities included the following water resource themes in their Master Plans:



Preservation of rural character



Increase protection/ordinances



Increase public outreach/education



Encourage low impact development for stormwater



Encourage land conservation



Develop technical studies and expertise







Water Infrastructure - Fall 2012

What is best about this area?

- ☐ Good Water Quality
- Good Environmental Quality
- Access to Amenities

What could make this area even better?

- More Public Sewer
- Better Infrastructure
- More municipal water coverage

Common Themes:

More Public Water & Sewer, Good Water Quality, Better Infrastructure







Our Speakers

- ☐ Don Ware, Chief Operating Officer, Pennichuck Water Works
 - Drinking Water
 - ☐ Storm Water



- Getting to Know Your Watershed
- ☐ Jim Taylor, Merrimack Wastewater Treatment Facility, Merrimack, NH
 - Wastewater



- Amherst, NH
- Water Issues in Amherst
- ☐ Regulations
- Education









What is water infrastructure?

EPA: Only Public Water Systems

HUD: No Green Infrastructure

NRPC: Physical & Green Infrastructure











Green Infrastructure

Benefit of Open Space Conservation













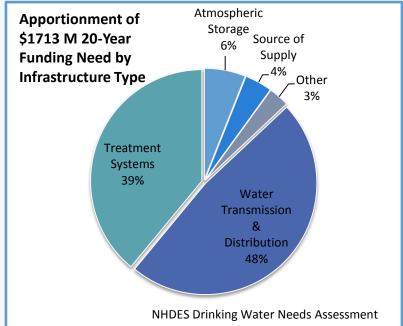
Drinking Water

Aging Infrastructure & Replacement Costs



Water pipe from Manchester dated 1882, removed 2012

Photo Sam Evans-Brown, NHPR





Merrimack Water Works







Storm Water



Photo courtesy of NHDES Watershed Bureau



Photo courtesy of NHDES Watershed Bureau



Speaker: Don Ware, Chief Operating Officer, Pennichuck Water Works

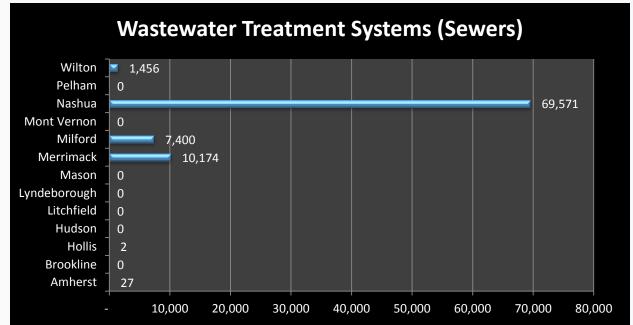


Baboosic Lake, Amherst & Merrimack





Waste Water



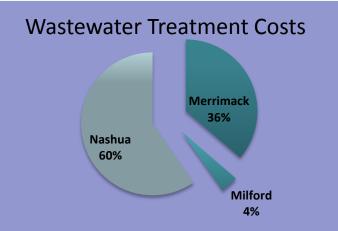


\$80,885,237 Cost of Wastewater Treatment in NRPC region

SRPC Water Infrastructure Data, NHDES 2005

Speaker: Jim Taylor Merrimack Waste Water Treatment Facility Merrimack, NH











Regulations



Photo courtesy of Bob B Brown, Flicker.com



Photo courtesy of Steve Reid Photography, Flickr.com

MS4 Permits:

Opportunity for community collaboration on resources and public education

Prohibited Land Uses for Ground water from Model Ground water Ordinance, NHDES







Public Education



Speaker: Sarah Marchant, Community Development Director Amherst NH





Souhegan River Watershed

The River

The 34-mile long Souhegan River is a pathway that connects communities and provides year-round recreation to swim. Rish, paddle, walk along, and enjoy scenic views. The river adds to quality of life to residents and visitors alike. Flowing through several town centers, the river provides a sense of history, a connection to nature, and a diverse set of economic opportunities.

The Watershed

The Souhegan River Watershed occupies approximately 220 square mile spanning seventeen committies in New Hampshire and Massachusetts.

The Souhegan River Watershed Management Plan (SRWMP) analyzes the River at the watershed scale, which allows for water resource goals to be realized across community boundaries in an ecologically sound manner.

The Plan

Creating the SRWMP was the first step in the process of protecting the Souhegan River Watershed under the NH Rivers Management and Protection Program. The Plan identifies watershed



conditions, priority management issues, and contains recommendations on ways local officials, state government, concerned citizens, and volunteer groups can help protect the river resource.

Moving Forward

Formal adoption of the Pan by watershed communities is the next step toward fully implementing the Plan. Once incorporated into each watershed community. Water Plan, recommended management strategies will become part of a wide range of municipal management decisions that affect or movels the Soulegen River or its watershed

The Souhegan in the Town of Amherst

Ninety-two percent of the land area in Amherst is within the Souhegan River Watershed. Beave Prook and Baboosic Brook lab follow through Amherst and act as major tributaries to the River. Containing the region's most extensive wetland complex, floodplain area, and stratified-drift aquifer network. Amherst's portion of the Souhegan River Watershed provides several important functions for aquatic systems and people alike. Amherst also contains scenic portions of the river, which help residents and visitors learn to appreciate the river. A canoeport is located on Route 122 in Amherst serving as an important recreational access opportunity for river apadifiers in the area.



Souhegan River paddlers. Photo courtesy of

When It Rains It Drains



Stormwater Education Curriculum

Prepared by



for the

Nashua Region Stormwater Coalition

March 2010





Break Out Groups

Workshop Discussion

- ☐ Ask:
 - What are the existing strengths in the region?
 - What are the issues or challenges?
 - What are the regional water infrastructure needs?
- ☐ For 3 Topics:
 - Public Investment: Drinking, Storm, Waste
 - Regulations
 - Public Outreach/Education



